

## CLAIMS

1.           A tubular suture reinforcement material for an automatic  
5   suturing device, wherein both ends of one or two sheet-like materials  
are sewed using a chain stitch (intralooping stitch) with a single  
thread to form a tubular shape, and one or two thread ends at one or  
two sewing ends are suitably extended.
- 10   2.           A tubular suture reinforcement material for an automatic  
suturing device according to Claim 1, wherein the tip part of the suture  
reinforcement material is sewed in a tapering manner or sewed into  
a bag-like shape.
- 15   3.           A tubular suture reinforcement material for an automatic  
suturing device according to Claim 1 or 2, wherein at least one portion  
of the sheet-like material is made of at least one member selected  
from the group consisting of knitted materials, woven materials,  
nonwoven fabrics, and film, the at least one member being made of a  
20   biodegradable and bioabsorbable material.
4.           A tubular suture reinforcement material for an automatic  
suturing device according to Claim 1, wherein the sheet-like material  
and a stretchable knitted material or woven material are stacked into  
25   a tubular shape.
5.           A tubular suture reinforcement material for an automatic  
suturing device according to any one of Claims 1 to 4, wherein a  
projection is formed on the sewing end portion of the one or two  
30   sheet-like materials forming the tubular shape.
6.           A tubular suture reinforcement material for an automatic  
suturing device according to any one of Claims 1 to 4, wherein extended  
thread ends at the sewing end are tied in a ring shape.

7. A tubular suture reinforcement material for an automatic suturing device according to any one of Claims 1 to 4, wherein a stopper is passed through a loop on a side of the extended thread end, thereby preventing a thread from unraveling.

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8. A tubular suture reinforcement material for an automatic suturing device according to any one of Claims 1 to 4, wherein the extended thread end is passed through an anterior loop continuous to the thread end, thereby preventing a thread from unraveling.

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9. A tubular suture reinforcement material for an automatic suturing device according to any one of Claims 1 to 4, wherein a loop on a side of the sewing end is tied to a loop immediately before the loop, thereby preventing a thread from unraveling.

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10. A method for manufacturing a tubular suture reinforcement material for an automatic suturing device comprising:

sewing both ends of one or two sheet-like materials using a chain stitch (intralooping stitch) with a single thread to give a tubular suture reinforcement material, and

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suitably extending one or two thread ends at one or two sewing ends.

11. An automatic suturing device, comprising a cartridge containing staples and a frame equipped with a staple receiving slot, wherein a tubular suture reinforcement material for an automatic suturing device according to any one of Claims 1 to 9 is fitted to the cartridge and/or the frame.

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